Dunn County Livestock Operations Study Group

Brief Overview of Study Approach April 11, 2017

Chris Straight, WCWRPC



Moratorium

- Adopted on October 19, 2016
- 6-month moratorium on new or expanding livestock facilities if will have 1,000+ a.u.
- Created a Livestock Operations Study Group (LOSG) to consider the following (but not limited to):
 - impact of facilities of 1,000+ a.u. on groundwater, surface water, air quality, and public health and safety
 - gaps and potential actions regarding regulations and enforcement
 - proposing solutions to mitigate problems or shortcoming

Торіс	Schedule	Meeting Activities & Goal(s)	
Initial Scoping	Meeting I – Dec 15	Discuss process and scope. Identify priority impacts & key questions.	
Finalize Scope & Initial Work Planning	Meeting 2 – Dec 29	Finalize scope and priority impacts. Commence with work planning.	
Exploring Impacts & Related Rules	Procontations and discussions		
CAFO Tour	Meeting 10 - Apr 10	Increase understanding of operations, required engineering, and alternative practices.	
Consensus on Key Findings & Sub- Findings	Meeting 11 – Apr 6	Discuss, identify, and organize Key Findings. LOSG to provide additional findings to staff as homework.	
Working Draft Report Development	mid-April (not a meeting)	Begin compiling recommendations and drafting the report.	
Finalize Findings & Begin Work on Recommendations	Meeting I2 – Apr 20	Finalize findings. Begin group discussions on recommendations.	
Review Recommendations and Working Draft Report	Meeting 13 – Apr 27	Discuss draft report and recommendations. Modify and amend report and recommendations. Schedule additional meeting(s) if needed.	
Additional Meetings, if needed	late April-Early May	Continue to discuss and finalize recommendations and study report.	
Presentation	mid-to-late May	Present report to County Board	

Project Methodology and Timeline

Approach...

- Study Group meets on Ist and 3rd Thursdays @ 10 AM, if possible
- Beginning I/I3/I6...Friday morning conference calls with Team Leads and staff on weeks prior to meetings.
- Distribute any reading materials on Friday's or Monday's prior to meetings.
- All materials and reports to be accompanied by an Executive Summary Cover Sheet (or similar)
- At end of meeting, review any "homework" for next meeting. LOSG members encourage to research, prepare report summaries, and read reports.



Ground Rules

- Must be factual. Provide sources. Base opinions on facts.
- Everyone has an opportunity and responsibility to participate.
- If speaking, get to the point; time is limited!
- Stay focused on the scope and priority impacts. Not everything is a priority.
- No analysis or recommendations specific to an existing or proposed livestock operation in Dunn County.
- Complete assignments on time.
- Be aware of the Open Meetings Law.
- Be realistic, but creative. A strategy may not yet be codified.

Project Scope

The study will include comparisons of livestock facilities of various sizes in order to differentiate between impacts, practices, and regulatory tools as needed and as time allows. The study should give special attention to CAFOs as defined by the State in particular.

Meetings I & 2 – issues, priorities, and work planning

Dunn County Livestock Operations Study Group

Work Plan

🙀 The purpose of this work plan is to help identify questions and research tasks, and track related progress. A research task may address multiple questions.

IMPACT/TOPIC: Water Quality and Quantity (Groundwater and Surface Water)

Questions/Concerns	Findings?	Specific Research Tasks (e.g., agency, case studies, presenters, literature review, regulations, case law)	Lead Person	Timeline/D eadline
TRENDS. Does the impact of CAFOs on		Explore/review USGS & SWIMS data		
groundwater and surface water exceed the impact of non-CAFOs relative to size		Summarize well data over time	Co. Public Health	Mtg 6
presently or in the pastsay 30 years ago?		Summarize Dunn Co. groundwater history	Co <u>LCD_and</u> Public Health?	Mtg 4 or 6
What effector impact do CAFOs have		Presentation or data from UW-Stout LAKES REU and/or Bill James at UW-Stout		
on regional surface water quality?		WDNR Fisheries Biologist, Mark Hazuga, WDNR, and/or Buzz Sorge, WDNR		
How does the potential effect on groundwater differ based on the size of		Presentation by Kevin Masarik., UW-SP/UW-Ext	Chris, RPC	Mtg 3
the CAFO and/or the amount of land available to apply manure? And what is allowed or required by regulations for different operations?				
4. How does current manure		Presentation from Dan, County LCD	Dan P., LCD	Mtg 3 & 4
management impact Dunn County's		Debbie Larson, UW-Madison		
water quality?		Presentation by Paul Kiylin, UW-RF	Dan P., LCD	Mtg 7
		Possible UW Discovery Farms presentation	Chris, RPC	Mtg.??
5. What can CAFO's do and how can manure be properly managed to protect		Presentation from Agronomist/Soil <u>Sci</u> (Francisco, UW-Ext or Greg Kern, UW-RF)	Mike, UW-Ext	Mtg 5? 6?
water quality? Are there voluntary safeguards we can recommend?		John <u>Sippel</u> , NRCS		
6. How can we monitor and measure water quality?				
- 111		Kewaunee Co LCD conf. call	Bob C.	Mtg 5
7. What can we learn from other counties?		Review Bayfield Co report & actions	Kathy S.	Mtg 6 or 7
countries:		Review WDNR/Kewaunee Groundwater Report		
		DATCP presentation by Chris Clayton	Chris, RPC	Mtg 4
8. How can the County enforce water		WDNR presentation Leah Nichol	Chris, RPC	Mtg 5
quality and/or quantity? Also related to		rovious and summarize. State Laws for the		

Meetings I & 2 – issues, priorities, and work planning

Dunn County Livestock Operations Study Group

Work Plan

The purpose of this work plan is to help identify questions and research tasks, and track related progress. A research task may address multiple questions.

IMPACT/TOPIC: Air Quality and Odor Management (strong overlap w/ Public Health) Specific Research Tasks Questions/Concerns Key Findings. Did we address the question? (e.g., agency, case studies, presenters, literature review, Lead Person Timelines regulations, case law) What has been done to effectively Co. Public Presentation by Dunn Co Public Health Mtg #6 managed odor in Wisconsin so neighbors Health to CAFOs can comfortably enjoy their also see Public Health tasks outdoors? 2. How can the County monitor odor? 3. Is odor a public health concern? What Review the "lowa Study" are the air quality concerns for large Review the "U of MN/DATCP Study" operations, and how does it differ by facility size, population (e.g., respiratory problems), etc.? IMPACT/TOPIC: Roads and Transportation Summarize related State laws (much covered 1. What are safe ways to transport through presentations) manure so there is not high traffic, manure spray irrigation, and leaky pipes? 2. What is the road damage potential County Highway Dept presentation Bob C. Mtg 7 from equipment and/or higher volumes? IOH issues. Dan Fedderly, Towns Association presentation? Bob C. Mtg 7 Should we be concerned with use of public right-of-way for the piping of manure?

Project Scope

Identifying Priority Impacts

- Air Quality includes Odor
- Roads includes R-O-W use and other Transportation
- Public Health not limited to air quality and groundwater
- Some LOSG members wanted to explore, but not enough time....
 - Socio-Economics (positive & negative)
 - Sustainability

Moratorium Specifically Mentions:

Groundwater

Surface Water

Air Quality

Public Health

Safety (roads)

These potential impacts were not report priorities:

- animal-to-animal diseases
- property tax implications
- cost of community services (except, maybe, roads?)
- agricultural and general economic impacts
- land use implications and conflicts
- other quality of life implications (e.g., aesthetics, noise)
- climate change
- other?

The report can recommend future action on other impacts, but they will not be fully studied or explored by May.

Meetings 3-9 – Presentations & Reports

- Data gathering relied heavily on presentations
 - At the beginning of next meeting, LOSG discussed highlights from previous meeting presentations
 - Vetted by full LOSG; building consensus
- Any LOSG member or staff could introduce a study.
 - Required to prepare a research summary cover page
 - Less vetted by full LOSG; less consensus
- All presentations and reports shared via Google Drive

Dunn County Livestock Operations Study Group Presentation Notes

Date:	2/16/17		
Presenters(s):	Leah Nichol, Agricultural Runoff Specialist, WDNR Joe Baeten, Water Resources Management Specialist, WDNR Aaron O'Rourke, Water Resources Management Specialist, WDNR		
 These potential impacts concern me most: WPDES covers manure and process wastewater impacts and "discharge is to the waters of the State (groundwater, surface water, wetlands) Key Impacts: Seepage allowed, provided groundwater standards not exceeded Sandy soils are a "sensitive area" and more prone to leaching; (Joe's slide related science). EC-DNR fully staffed 			
Data Needs or Gaps:	 More information is needed on: More data on livestock and farming trends in Dunn County. SNAP-PLUS (NMP mapping software) - Are there any weakness or local data input that should be considered or strengthened?		
000000	 Existing policies, rules, or programs do not appear to address: Most non-compliances are reported by local entities or public. 		

DUNN COUNTY CAFO STUDY - RESEARCH SUMMARY COVER SHEET

Very briefly, what impact(s), questions, or concerns are being addressed:

Farm Animal Mortuary/Disposal response from Leah Nicol
email is at bottom

Author of Summary:

Date:

Source(s) of Information (with full citation):

Nicol, Leah. RE: Farm Animal Mortuary/Disposal. 2017. E-mail.

Wis. Stat. § 243.13 (8)

Initial Key Findings from Author (may attached a summary if needed):

- Most farms hire a rendering company to pick up carcasses.
 - Compost is possible if compost area meets all zero discharge rules.
- NR 243.13 (8) provides MORTALITY MANAGEMENT
 - Animal carcasses may not be disposed of in a manner that results in a discharge of pollutants to surface waters, violates groundwater standards or impairs wetland functional values. Animal carcasses may not be disposed of directly into waters of the state.
 - Carcasses may not be disposed of in liquid manure or process wastewater containment, storage
 or treatment facilities unless the containment, storage or treatment facility is adequately
 designed to contain and treat carcasses and the facility has been approved by the department for
 that use.
 - The permittee shall maintain records of mortality management and disposal methods in accordance with s. NR 243.19.
- 3.2.4 Mortality Management from WPDES permit (same as 243.13(8) above)

Meeting II – Developing Key Findings & Sub-Findings

Key Findings must be...

- √ Factual and (if possible) Sourced.
- √ General and Comprehensive. Avoid overly detailed, if possible. No findings specific to an existing or proposed livestock operation in Dunn County.
- √ Important and Essential for Dunn County. Not everything is a key finding.
- √ Most findings are likely Actionable
- √ Consistent with the Study Purpose and Scope (you decided if consistent or important)

Meeting II – Developing Key Findings & Sub-Findings

<u>Identify Key Findings</u> → Support your Recommendations

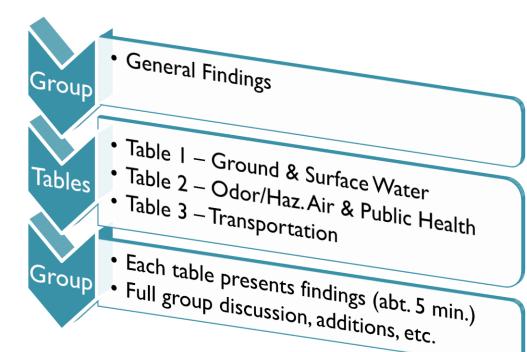
- What did we learn about potential impacts or gaps from the presentations and reports that are most important?
- Do you agree with the draft findings? Would you change or delete?
- Is something missing?

Consensus

- "a generally accepted opinion or decision among a group of people; overwhelming agreement"
- Disagreement is natural and healthy; listen to and respect differing opinions.
- Strive for unanimity, but does not mean unanimity.
- If disagreement occurs, can the statement be modified or reframed so that everyone agrees that they "can live with" the final proposal?
- If your table can't achieve a consensus, will discuss as a full group.

Draft findings taken from the presentation and report summaries.

Draft findings are not new; just re-organized by staff.



Meeting II – Developing Key Findings

General Find	lings	;	p.1		
	What are your "big picture" or general findings? Is more information needed? Any key policies or gaps? Any general statements?				
	Y?	Key Findings	Sub-Findings (if any)		
	x	Agriculture is important to the economy and rural fabric of Dunn County. It is Dunn County's responsibility to protect and balance the agricultural industry and the health, safety, and general welfare of the entire Dunn County community. The sizes and types of farms and livestock	see WCWRPC agricultural data summary		
		perations in Dunn County are changing and the umber of CAFOs in Wisconsin are increasing.	add farm size numbers from Kathy S.		
			add livestock type numbers from Kathy S. There is a growing managed grazing movement.		
			 The number of CAFOs with WPDES permits in Wisconsin have increased from 87 in 2000 to over 300 in 2017; the WDNR has recently been receiving about 15 permit applications each year. 		
General Findings Findings, Data Gaps,	x	3. CAFOs, given their larger size, pose a unique set of risks and the potential for greater negative impacts if something goes wrong due to the large concentrated amounts of manure. However, larger farms often have more resources and opportunities to implement mitigation and management practices to reduce these risks.			
or Policy Gaps	x	4. Non-CAFO's are regulated differently than CAFO's.	 In terms of reducing water quality risks from manure, the practices (e.g., facility design & maintenance, the manner, timing, & location of landspreading) are frequently more important than the size of the livestock operation. A smaller operation that is poorly managed can have greater negative impacts than a well-operated CAFO. 		
			 WDNR visits CAFOs a minimum of twice over a five-year permit cycle. A Summer 2016 audit of WPDES permit management and enforcement was highly critical of WDNR management of the WPDES program and it is important to continue to monitor whether recent WDNR staff increases and reorganization will sufficiently address the audit concerns. (WDNR; Legislative Audit Bureau audit report) 		
			 CAFOs are self-reporting to WDNR for WPDES permitting. Soil sampling is required every three years and WPDES permits must be renewed every five years. 		
	х	5. Counties cannot adopt livestock siting standards that exceed state water quality standards without WDNR or DATCP approval. (DATCP Options PDF)	•		
000000000000000000000000000000000000000		E State normitting is "one size fits all " State			

Current Status

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